

Figure 2A

Cancel/a

GCGAGGCAGGCAGCCTGGAGAGAAGGCG	28
CTGGGCTGCGAGGGCGCGAGGGCGCGAGGGCAACCGGACCCGCCGCATCC	87
ATG GCG CCC GTC GCC GTC TGG GCC GCG CTG GCC GTC GGA CTG GAG Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu	132 -2
CTC TGG GCT GCG GCG CAC GCC TTG CCC GCC CAG GTG GCA TTT ACA Leu Trp Ala Ala Ala His Ala Leu Pro Ala Gln Val Ala Phe Thr	177 8
CCC TAC GCC CCG GAG CCC GGG AGC ACA TGC CGG CTC AGA GAA TAC Pro Tyr Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr	222 23
TAT GAC CAG ACA GCT CAG ATG TGC TGC AGC AAA TGC TCG CCG GGC Tyr Asp Gln Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly	267 38
CAA CAT GCA AAA GTC TTC TGT ACC AAG ACC TCG GAC ACC GTG TGT Gln His Ala Lys Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys	312 53
GAC TCC TGT GAG GAC AGC ACA TAC ACC CAG CTC TGG AAC TGG GTT Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val	357 62
CCC GAG TGC TTG AGC TGT GGC TCC CGC TGT AGC TCT GAC CAG GTG Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser Asp Gln Val	402 83
GAA ACT CAA GCC TGC ACT CGG GAA CAG AAC CGC ATC TGC ACC TGC Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys Thr Cys	447 98
AGG CCC GGC TGG TAC TGC GCG CTG AGC AAG CAG GAG GGG TGC CGG Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys Arg	492 113
CTG TGC GCG CCG CTG CGC AAG TGC CGC CCG GGC TTC GGC GTG GCC Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala	537 128
AGA CCA GGA ACT GAA ACA TCA GAC GTG GTG TGC AAG CCC TGT GCC Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala	582 143
CCG GGG ACG TTC TCC AAC ACG ACT TCA TCC ACG GAT ATT TGC AGG Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg	627 158
CCC CAC CAG ATC TGT AAC GTG GTG GCC ATC CCT GGG AAT GCA AGC Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser	672 173
ATG GAT GCA GTC TGC ACG TCC ACG TCC CCC ACC CGG AGT ATG GCC Met Asp Ala Val Cys Thr Ser Thr Pro Thr Arg Ser Met Ala	717 188
CCA GGG GCA GTA CAC TTA CCC CAG CCA GTG TCC ACA CGA TCC CAA Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln	762 203
CAC ACG CAG CCA ACT CCA GAA CCC AGC ACT GCT CCA AGC ACC TCC His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser	807 218
TTC CTG CTC CCA ATG GGC CCC AGC CCC CCA GCT GAA GGG AGC ACT Phe Leu Leu Pro Met Gly Pro Ser Pro Ala Glu Gly Ser Thr	852 233
GGC GAC TTC GCT CTT CCA GTT GGA CTG ATT GTG GGT GTG ACA GCC Gly Asp Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala	897 248
TTG GGT CTA CTA ATA ATA GGA GTG GTG AAC TGT GTC ATC ATG ACC Leu Gly Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr	942 263

Cancel/a

Figure 2B

CAG GTG AAA AAG AAG CCC TTG TGC CTG CAG AGA GAA GCC AAG GTG <u>Gln</u> <u>Val</u> <u>Lys</u> <u>Lys</u> <u>Pro</u> <u>Leu</u> <u>Cys</u> <u>Leu</u> <u>Gln</u> <u>Arg</u> <u>Glu</u> <u>Ala</u> <u>Lys</u> <u>Val</u>	987 278
CCT CAC TTG CCT GCC GAT AAG GCC CCG GGT ACA CAG GGC CCC GAG <u>Pro</u> <u>His</u> <u>Leu</u> <u>Pro</u> <u>Ala</u> <u>Asp</u> <u>Lys</u> <u>Ala</u> <u>Arg</u> <u>Gly</u> <u>Thr</u> <u>Gln</u> <u>Gly</u> <u>Pro</u> <u>Glu</u>	1032 293
CAG CAG CAC CTG CTG ATC ACA GCG CCG AGC TCC AGC AGC AGC TCC <u>Gln</u> <u>Gln</u> <u>His</u> <u>Leu</u> <u>Leu</u> <u>Ile</u> <u>Thr</u> <u>Ala</u> <u>Pro</u> <u>Ser</u> <u>Ser</u> <u>Ser</u> <u>Ser</u> <u>Ser</u>	1077 308
CTG GAG AGC TCG GCC AGT GCG TTG GAC AGA AGG GCG CCC ACT CGG <u>Leu</u> <u>Glu</u> <u>Ser</u> <u>Ser</u> <u>Ala</u> <u>Ser</u> <u>Ala</u> <u>Leu</u> <u>Asp</u> <u>Arg</u> <u>Arg</u> <u>Ala</u> <u>Pro</u> <u>Thr</u> <u>Arg</u>	1122 323
AAC CAG CCA CAG GCA CCA GGC GTG GAG GCC AGT GGG GCC GGG GAG <u>Asn</u> <u>Gln</u> <u>Pro</u> <u>Gln</u> <u>Ala</u> <u>Pro</u> <u>Gly</u> <u>Val</u> <u>Glu</u> <u>Ala</u> <u>Ser</u> <u>Gly</u> <u>Ala</u> <u>Gly</u> <u>Glu</u>	1167 338
GCC CGG GCC AGC ACC GGG AGC TCA GAT TCT TCC CCT GGT GGC CAT <u>Ala</u> <u>Arg</u> <u>Ala</u> <u>Ser</u> <u>Thr</u> <u>Gly</u> <u>Ser</u> <u>Ser</u> <u>Asp</u> <u>Ser</u> <u>Ser</u> <u>Pro</u> <u>Gly</u> <u>Gly</u> <u>His</u>	1212 353
GGG ACC CAG GTC AAT GTC ACC TGC ATC GTG AAC GTC TGT AGC AGC <u>Gly</u> <u>Thr</u> <u>Gln</u> <u>Val</u> <u>Asn</u> <u>Val</u> <u>Thr</u> <u>Cys</u> <u>Ile</u> <u>Val</u> <u>Asn</u> <u>Val</u> <u>Cys</u> <u>Ser</u> <u>Ser</u>	1257 368
TCT GAC CAC AGC TCA CAG TGC TCC TCC CAA GCC AGC TCC ACA ATG <u>Ser</u> <u>Asp</u> <u>His</u> <u>Ser</u> <u>Ser</u> <u>Gln</u> <u>Cys</u> <u>Ser</u> <u>Ser</u> <u>Gln</u> <u>Ala</u> <u>Ser</u> <u>Ser</u> <u>Thr</u> <u>Met</u>	1302 383
GGA GAC ACA GAT TCC AGC CCC TCG GAG TCC CCG AAG GAC GAG CAG <u>Gly</u> <u>Asp</u> <u>Thr</u> <u>Asp</u> <u>Ser</u> <u>Ser</u> <u>Pro</u> <u>Ser</u> <u>Glu</u> <u>Ser</u> <u>Pro</u> <u>Lys</u> <u>Asp</u> <u>Glu</u> <u>Gln</u>	1347 398
GTC CCC TTC TCC AAG GAG GAA TGT GCC TTT CGG TCA CAG CTG GAG <u>Val</u> <u>Pro</u> <u>Phe</u> <u>Ser</u> <u>Lys</u> <u>Glu</u> <u>Glu</u> <u>Cys</u> <u>Ala</u> <u>Phe</u> <u>Arg</u> <u>Ser</u> <u>Gln</u> <u>Leu</u> <u>Glu</u>	1392 413
ACG CCA GAG ACC CTG CTG GGG AGC ACC GAA GAG AAG CCC CTG CCC <u>Thr</u> <u>Pro</u> <u>Glu</u> <u>Thr</u> <u>Leu</u> <u>Leu</u> <u>Gly</u> <u>Ser</u> <u>Thr</u> <u>Glu</u> <u>Glu</u> <u>Lys</u> <u>Pro</u> <u>Leu</u> <u>Pro</u>	1437 428
CTT GGA GTG CCT GAT GCT GGG ATG AAG CCC AGT <u>Leu</u> <u>Gly</u> <u>Val</u> <u>Pro</u> <u>Asp</u> <u>Ala</u> <u>Gly</u> <u>Met</u> <u>Lys</u> <u>Pro</u> <u>Ser</u>	1470 439
TAACCAGGCCGGTGTGGGCTGTGTCGTAGCCAAGGTGGGCTGAGCCCTGGCAGGATGAC	
CCTGCGAAGGGGCCCTGGTCCTCCAGGCCCCACCACTAGGACTCTGAGGCTCTTCT	
GGGCCAAGTTCCCTAGTGCCCTCACAGCCGCAGCCTCCCTGACCTGCAG...	

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Figure 3A

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CGCAGCTGAGGCCTAGAGCTCC	23
AGGCACAAGGGCGGGAGCCACCGCTGCCCT ATG GCG CCC GCC GCC CTC TGG	75
Met Ala Pro Ala Ala Leu Trp	-16
GTC GCG CTG GTC TTC GAA CTG CAG CTG TGG GCC ACC GGG CAC ACA	120
Val Ala Leu Val Phe Glu Leu Gln Leu Trp Ala Thr Gly His Thr	-1
GTG CCC GCC CAG GTT GTC TTG ACA CCC TAC AAA CCG GAA CCT GGG	165
Val Pro Ala Gln Val Val Leu Thr Pro Tyr Lys Pro Glu Pro Gly	15
TAC GAG TGC CAG ATC TCA CAG GAA TAC TAT GAC AGG AAG GCT CAG	210
Tyr Glu Cys Gln Ile Ser Gln Glu Tyr Tyr Asp Arg Lys Ala Gln	30
ATG TGC TGT GCT AAG TGT CCT CCT GGC CAA TAT GTG AAA CAT TTC	255
Met Cys Cys Ala Lys Cys Pro Pro Gly Gln Tyr Val Lys His Phe	45
TGC AAC AAG ACC TCG GAC ACC GTG TGT GCG GAC TGT GAG GCA AGC	300
Cys Asn Lys Thr Ser Asp Thr Val Cys Ala Asp Cys Glu Ala Ser	60
ATG TAT ACC CAG GTC TGG AAC CAG TTT CGT ACA TGT TTG AGC TGC	345
Met Tyr Thr Gln Val Trp Asn Gln Phe Arg Thr Cys Leu Ser Cys	75
AGT TCT TCC TGT ACC ACT GAC CAG GTG GAG ATC CGC GCC TGC ACT	390
Ser Ser Ser Cys Thr Thr Asp Gln Val Glu Ile Arg Ala Cys Thr	90
AAA CAG CAG AAC CGA GTG TGT GCT TGC GAA GCT GGC AGG TAC TgC	435
Lys Gln Gln Asn Arg Val Cys Ala Cys Glu Ala Gly Arg Tyr Cys	105
GCC TTG AAA ACC CAT TCT GGC AGC TGT CGA CAG TGC ATG AGG CTG	480
Ala Leu Lys Thr His Ser Gly Ser Cys Arg Gln Cys Met Arg Leu	120
AGC AAG TGC GGC CCT GGC TTC GGA GTG GCC AGT TCA AGA GCC CCA	525
Ser Lys Cys Gly Pro Gly Val Ala Ser Ser Arg Ala Pro	135
AAT GGA AAT GTG CTA TGC AAG GCC TGT GCC CCA GGG ACG TTC TCT	570
Asn Gly Asn Val Leu Cys Lys Ala Cys Ala Pro Gly Thr Phe Ser	150
GAC ACC ACA TCA TCC ACT GAT GTG TGC AGG CCC CAC CGC ATC TGT	615
Asp Thr Thr Ser Ser Thr Asp Val Cys Arg Pro His Arg Ile Cys	165
AGC ATC CTG GCT ATT CCC GGA AAT GCA AGC ACA GAT GCA GTC TGT	660
Ser Ile Leu Ala Ile Pro Gly Asn Ala Ser Thr Asp Ala Val Cys	180
GCG CCC GAG TCC CCA ACT CTA AGT GCC ATC CCA AGG ACA CTC TAC	705
Ala Pro Glu Ser Pro Thr Leu Ser Ala Ile Pro Arg Thr Leu Tyr	195
GTA TCT CAG CCA GAG CCC ACA AGA TCC CAA CCC CTG GAT CAA GAG	750
Val Ser Gln Pro Glu Pro Thr Arg Ser Gln Pro Leu Asp Gln Glu	210
CCA GGG CCC AGC CAA ACT CCA AGC ATC CTT ACA TCG TTG GGT TCA	795
Pro Gly Pro Ser Gln Thr Pro Ser Ile Leu Thr Ser Leu Gly Ser	225
ACC CCC ATT ATT GAA CAA AGT ACC AAG GGT GGC ATC TCT CTT CCA	840
Thr Pro Ile Ile Glu Gln Ser Thr Lys Gly Gly Ile Ser Leu Pro	240
ATT GGT CTG ATT GTT GGA GTG ACA TCA CTG GGT CTG CTG ATG TTA	885
Ile Gly Leu Ile Val Gly Val Thr Ser Leu Gly Leu Leu Met Leu	255

Figure 3B

GGA CTG GTG AAC TGC ATC ATC CTG GTG CAG AGG AAA AAG AAG CCC	930
<u>Gly Leu Val Asn Cys Ile Ile Leu Val Gln Arg Lys Lys Pro</u>	270
TCC TGC CTA CAA AGA GAT GCC AAG GTG CCT CAT GTG CCT GAT GAG	975
<u>Ser Cys Leu Gln Arg Asp Ala Lys Val Pro His Val Pro Asp Glu</u>	285
AAA TCC CAG GAT GCA GTA GGC CTT GAG CAG CAC CTG TTG ACC	1020
<u>Lys Ser Gln Asp Ala Val Gly Leu Gln Gln His Leu Leu Thr</u>	300
AC GCA CCC AGT TCC AGC AGC AGC TCC CTA GAG AGC TCA GCC AGC	1065
<u>Thr Ile Pro Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser</u>	315
GCT GGG GAC CGA AGG GCG CCC CCT GGG GGC CAT CCC CAA GCA AGA	1110
<u>Ala Gly Asp Arg Arg Ala Pro Pro Gly Gly His Pro Gln Ala Arg</u>	330
GTC ATG GCG GAG GCC CAA GGG TTT CAG GAG GCC CGT GCC AGC TCC	1155
<u>Val Met Ala Glu Ala Gln Gly Phe Gln Glu Ala Arg Ala Ser Ser</u>	345
AGG ATT TCA GAT TCT TCC CAC GGA AGC CAC GGG ACC CAC GTC AAC	1200
<u>Arg Ile Ser Asp Ser Ser His Gly Ser His Gly Thr His Val Asn</u>	360
GTC ACC TGC ATC GTG AAC GTC TGT AGC AGC TCT GAC CAC AGT TCT	1245
<u>Val Thr Cys Ile Val Asn Val Cys Ser Ser Asp His Ser Ser</u>	375
CAG TGC TCT TCC CAA GCC AGC GCC ACA GTG GGA GAC CCA GAT GCC	1290
<u>Gln Cys Ser Ser Gln Ala Ser Ala Thr Val Gly Asp Pro Asp Ala</u>	390
AAG CCC TCA GCG TCC CCA AAG GAT GAG CAG GTC CCC TTC TCT CAG	1335
<u>Lys Pro Ser Ala Ser Pro Lys Asp Glu Gln Val Pro Phe Ser Gln</u>	405
GAG GAG TGT CCG TCT CAG TCC CCG TGT GAG ACT ACA GAG ACA CTG	1380
<u>Glu Glu Cys Pro Ser Gln Ser Pro Cys Glu Thr Thr Glu Thr Leu</u>	420
CAG AGC CAT GAG AAG CCC TTG CCC CTT GGT GTG CCG GAT ATG GGC	1425
<u>Gln Ser His Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Met Gly</u>	435
ATG AAG CCC AGC CAA GCT GGC TGG TTT GAT CAG ATT GCA GTC AAA	1470
<u>Met Lys Pro Ser Gln Ala Gly Trp Phe Asp Gln Ile Ala Val Lys</u>	450
GTG GCC	1476
<u>Val Ala</u>	452
TGACCCCTGACAGGGTAACACCCCTGCAAAGGGACCCCGAGACCCCTGAACCCATGGAAC	1536
TTCATGACTTTGCTGGATCCATTCCCTTAGTGGCTTCCAGAGCCCCAGTTGCAGGTCA	1596
AGTGAGGGCTGAGACAGCTAGAGTGGCAAAACTGCCATGGTCTTATGGGGCAGTC	1656
CCAGGAAGTTGTTGCTCTCCATGACCCCTCTGGATCTCCTGGCTCTGCCTGATTCTT	1716
GCTTCTGAGAGGCCAGTATTTCTCTCTAAGGAGCTAACATCCTCTTCCATGAATA	1776
GCACAGCTTCTGAGCTGAATGCTGACACTGCAGGGCGTTCCAGCAAGTAGGAGCAAGT	1836
GGIGGCCTGGTAGGGCACAGAGCCCTTCAGGTTAGTGTCTAAACTCTAGGAAGTACCC	1896
CTCCAAGCCCACCGAAATTCTTTGATGCAAGAATCAGAGGCCCATCAGGCAGAGTTGC	1956
TCTGTTATAGGATGGTAGGGCTGTAACTCAGTGGTCCAGTGTGCTTTAGCATGCCCTGG	2016
GTTCAGGACTGTAGAGTTCCAGGCCCTGCAGCCACCTGCTCTTCTACCTCA	2076
CAGCCCCCTGTTGCTGCAGCCCTTGACTTTACTCTGGTGGCACACAGAG	2136
GGCTGGAGCTCTCCCTGACCTCTAATGAGCCCTCAAGGCCACGCCCTCCTTCAG	2196
GGAATCTCAGGGACTGTAGAGTTCCAGGCCCTGCAGCCACCTGCTCTTCTACCTCA	2256
GCCTGGAGCactCCCTCTAATCCCCAACGCTTGGTACTGTAATGCTGTGACCCCAAC	2316
GTGCATTGTCGGGTTAGGGACTGTGAGTTGAAACAGCTCATGACATCGGTTGAAAGGCC	2376
CACCCGGAAACAGCTAACAGCTTGCAGCTTTGCAAAAGGATTCAATGCCGGTTCTAATCAa	2436
CCTGCTCCCTAGCATTGCTGGAAAGGAAAGGTTAGGAGACTCCTCAAGAAGCAAGTC	2496
AGTCTCAGGTGCTGGATGCCATGCTCACCGATTCCACTGGATATGAACCTGGCAGAGGA	2556

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Figure 3C

GCCTAGTTGCCATGGAGACTTAAAGAGCTCAGCACTCTGGAATCAAGATACTGGACA	2616
CTTGGGGCCGACTTGTAAAGGCTCGCAGCATCAGACTGTAGAGGGGAAGGAACACGTCT	2676
GCCCCCTGGTGGCCCGTCTGGGATGACCTCGGGCCTCCTAGGCAACAAAAGAATGAATT	2736
GGAAAGGATGTTCTGGGTGTGGCTAGCTCCTGTGCTTGTGGATCCCTAAAGGGTGT	2796
GCTAAGGAGCAATTGCACTGTGTGGACAGAATTCTGCTTATAAATGCTTTTGTG	2856
TTGTTTGTACACTGAGCCCTGGCTGAGCCACCCACCCCCATCCCATCCCACCTTAC	2916
ACGCCACTCTGCATGAGAACCTGGCTGTCTCCACTTGTAGCCGTGGATGCTGAGGAA	2976
ACACCCAGCCAGTAGACTCCAGGCTTgCCCCATCTCCTGcTaTGAGTcTggCCTCCTC	3036
AtTgTGTGTTGGGAAgGAGACGGGtTCTGTCATCTCGGAACgCCCCACACCCTGGGATGTGA	3096
ACAAATGGCTGTACTAGCTTAGACCAgCTTAGGGCTCTGCATATCACAGGAGGGGAGCAG	3156
GGAAACAATTGAGTGCTGACCTATAACACAGTTCTAAAGGATCGGGCAGTCCAGAATCT	3216
CCTCCTTCAGTCCATGTT	3276
TGCATGTATGTGTGCGCAGTGTGTGGAGGCCGAGGTTGGCTTGGGTGTGTTGATCA	3336
CTCTCCAGTTACTGAGGCCGGCTCTCATCTGTACCCAGAGCTTGACATTTCTAGTCTA	3396
ACTTGATTCAAGGGATCTGTCTGCCTATGGAGgTGCTCAGGTTACAGGCAGGCTGCCAT	3456
ACCTGCCGACATTACATGAATACTAGAGATCTGAATTCTGGTCTCACACTTGATAC	3516
CTGCATTTATCCACTAAGACATCTCCAAGGGCTCCCCCTCTATTATAAGTTAG	3576
TTTGAACTGGCAAGATGGCTCAGTGGTAAGGCAGTTGCGGACAAACCTGATGACCTG	3636
AGTTGGATCCCTGACCATAAAGGTAGAAGAGACCTGATCCCTGCAAGTTGTCCCTGACCA	3696
CCACCCCCATACATGCTCTGCATATGTGCACACATCACATTCTGCACACACACTCACAT	3756
ACCATAAATGTAATAAATTTTAAATAATTGATTATCTTTAAAAA	3813

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